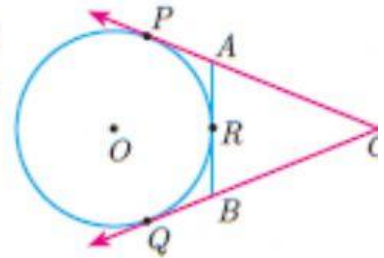


12. How many tangents can be drawn to the circle from an exterior point?  
 (1) one                      (2) two                      (3) infinite                      (4) zero
13. The two tangents from an external points  $P$  to a circle with centre at  $O$  are  $PA$  and  $PB$ . If  $\angle APB = 70^\circ$  then the value of  $\angle AOB$  is  
 (1)  $100^\circ$                       (2)  $110^\circ$                       (3)  $120^\circ$                       (4)  $130^\circ$

14. In figure  $CP$  and  $CQ$  are tangents to a circle with centre at  $O$ .  $ARB$  is another tangent touching the circle at  $R$ . If  $CP = 11$  cm and  $BC = 7$  cm, then the length of  $BR$  is  
 (1) 6 cm                      (2) 5 cm  
 (3) 8 cm                      (4) 4 cm



15. In figure if  $PR$  is tangent to the circle at  $P$  and  $O$  is the centre of the circle, then  $\angle POQ$  is  
 (1)  $120^\circ$                       (2)  $100^\circ$   
 (3)  $110^\circ$                       (4)  $90^\circ$

